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?s pn=fr 2665654

S2 1 PN=FR 2665654

?t s2/3,ab

2/3,AB/1

DIALOG(R)File 351:Derwent WPI

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WPI Acc No: 1992-125626/ 199216

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XRPX Acc No: N92-093877

Machine for the pressure casting of thixotropic metal alloy - has cooling, reheating and injection sections longitudinally aligned, and piston to convey casting

Patent Assignee: ARMINES ASSOC RECH DEV METHODE (ARME)

Inventor: COLLOT J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2665654	A	19920214	FR 9010213	A	19900809	199216 B

Priority Applications (No Type Date): FR 9010213 A 19900809

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
FR 2665654	A		23		

Abstract (Basic): FR 2665654 A

A machine for the pressure casting of a metallic alloy in the thixotropic state comprises three sections arranged side by side:- a cooling section (A), incorporating a mould (2) cooled by the circulation of a cooling fluid; a reheating section (B); and an injection section (C).

These three sections (A,B,C) have internal volumes (5,27,15) that are longitudinally aligned to provide a treatment canal and at least one piston (6) able to move longitudinally to serve as the bottom of the mould and to convey the casting through the three sections (A,B,C) of the machine during its filling with liq. metal. The sections can be put together in any suitable combination in either a vertical or horizontal alignment.

USE/ADVANTAGE - The machine is used for the pressure casting of metal alloys in the thixotropic state and allows, in a relatively short cycle, all the operations necessary to perform this operation and produce a casting without porosity, cracking or blowholes in conditions that are partic. economic.

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?s pn=de 4310755

S6 1 PN=DE 4310755

?t s6/3,ab

6/3,AB/1

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010043507

WPI Acc No: 1994-311218/ 199439

XRAM Acc No: C94-141428

XRFX Acc No: N94-245002

Method and appts. for pressure casting - with an axially movable, closely fitting element dividing the casting chamber into two sealed spaces.

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Inventor: MUELLER M

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4310755	A1	19941006	DE 4310755	A	19930401	199439 B
DE 4310755	C2	19960425	DE 4310755	A	19930401	199621

Priority Applications (No Type Date): DE 4310755 A 19930401

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 4310755	A1		8	B22D-017/00	
DE 4310755	C2		8	B22D-017/00	

Abstract (Basic): DE 4310755 A

The method and appts. for pressure casting are characterised by the following facts: (a) the casting chamber (4) houses an axially movable, closely fitting element (9) which axially divides the chamber into two sealed spaces (13,14); (b) in the mould (1,2) means are provided which allow the element (9) to be moved out of the way from the casting chamber (4) into the mould interior (3); (c) with the casting piston retracted, the space (14) of the casting chamber is completely filled with melt which is then transferred into the mould interior.

USE - For manufacture of thin-walled castings with high strength and high dimensional accuracy.

ADVANTAGE - Fault-free casting is possible without accurate dosing of the melt volume.

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